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From $E_c - E_F = kT \ln [N_C / (N_D - N_A)]$

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which can be rewritten as $N_D - N_A = N_C \exp [- (E_C - E_F) / kT]$ Then $N_D - N_A = 2.86 \times 10^{19} \exp (- 0.20 / 0.0259) = 1.26 \times 10^{16} \text{ cm}^{-3}$ or $N_D = 1.26 \times 10^{16} + N_A = 2.26 \times 10^{16} \text{ cm}^{-3}$ A compensated semiconductor can be fabricated to provide a specific Fermi energy level. 15.

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Manual Problem Solutions 26 $E_3 = 4.145 \text{ eV}$
 $E_4 = 6.0165 \text{ eV}$ so $E = 1.87 \text{ eV}$ (c) $2 <$
 $ka < 3$ 1st point: $a = 2.54$ 2nd point:

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$a = 3$ Then $E_5 = 9.704$ eV $E_6 = 13.537$ eV so $E = 3.83$ eV (d) $3 < ka < 4$
 1st point: $a = 3.44$ 2nd point: $a =$

4 Then $E_7 = 17.799$ eV $E_8 = 24.066$ eV so
 $E = 6.27$ eV $3.106 \sin \cos \cos$ $a a$

$+ a = ka$ Forbidden energy bands (a) $ka =$
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a ϕ_0 were to increase, the bandgap energy
would decrease and the material would
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and more like a metal. If α_0 were to decrease, the bandgap energy would increase and the material would begin to behave more like an insulator.

3.2 wave equation is: $\nabla^2 \psi + (k^2 - \epsilon \mu \omega^2) \psi = 0$ Assume the solution is of the form: $\psi = E_0 e^{j(kx - \omega t)}$

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atoms $\times 1/8 = 1$ atom 6 face atoms $\times 1/2 =$

3 atoms Total of 4 atoms per unit cell (b)

bcc: 8 corner atoms $\times 1/8 = 1$ atom 1

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enclosed atom = 1 atom Total of 2 atoms
per unit cell (c) Diamond: 8 corner atoms
 $\times \frac{1}{8} = 1$ atom 6 face atoms $\times \frac{1}{2} = 3$
atoms 4 enclosed atoms = 4 atoms Total of 8

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